

Complete fixture consists of: Power Head, Reflector, and Suspension. Select each separately

Reflector/Refractor Power Head: Powder Coated Textured Dark Gray

Cat. No	Cat. No	Lamp	Watts	Volts	Options
40421 Semi Specular, Anodized Reflector	4046261	Incandescent A21	150	120	Not App.
	40472U3	CFL Triple Tube	26/32/42	120/277V	MX1, MX2, DA, E3 <small>Remove U or U3 from Cat. No. & add Suffix</small>
40422 Acrylic Refractor	4047270EU	Metal Halide ED17	70 (Open Rated)	120/277V	N/A
	40472100EU	Metal Halide ED17	100 (Open Rated)	120/277V	N/A

MX1 = Mark X Dimming 26/32/42W, 120V*
MX2 = Mark X Dimming 26/32/42W, 277V*
DA = DALI (Digital Addressable Interface)*
E3 = 347V (Canada) specification data
 *2-wire, neutral connection required at dimming control.
 ** 5-wire Suspension Kit required.

Note: For CFL unit with integrated Emergency Battery Pack (EM) Option refer to Spec Sheet number P-EM for Cat. No. ordering guide and specification data.

Suspension

Cat. No.	Description	Color
404SKG	120" Length Cable/Cord + Coil Cord	Gray
404SG5*	120" Length 5-wire Straight Cable/Cord Only	Gray
404S36	36" Length 5/8" Stem	Gray
404S60	60" Length 5/8" Stem	Gray
404S120	120" Length 5/8" Stem	Gray

Suspension Kits are able to be field cut.

Direct to Ceiling Kits

Cat. No.	Description	Color
4912CTGR	All 9", 12" and 16" Pendalysts	Gray

Optional Extension Kits

Cat. No.	Description	Color
404EXT300	25' Extension Cable/Cord Kit	Gray
404EXT300G5*	25' Cable/Cord, 5-Wire Kit	

Use with Standard Cord. Suspension Kits are able to be field cut.
 *DALI requires a 5-Wire Suspension Kit

Track Mounting Kits

Cat. No.	Description	Color
404GLS	Lytespan Track Mounting Kit	Gray

Reflector/Refractor Options

Cat. No.	Description	Used With
421G	Industrux Glass Lens	40421
422A	Flat Acrylic Lens	40422
422G	Industrux Glass Lens	40422
404TRM12	12" Trim Ring	40422/40421

Features

- Reflector/Refractor:** Injection Molded Acrylic, UV Stabilized. Semi-specular High purity Anodized Aluminum, 16 gauge iridescence-free.
- Power Head Housing:** Two-piece extruded aluminum. Removable door allows for ease of installation and servicing. Dark Gray textured powder coat finish.
- Suspension:** Cable/Cord: 1/16" Stainless Steel/SJT 18-3, Gray. Cable/Coiled Cord: 1/16" Stainless Steel/SJT 18-3, Gray. Gray Canopy. Stem: 3/4" steel tubing an canopy, with 35° swivel hanger. Gray Finish.
- Shielding Options:** Industrex® Glass Lens or Clear Acrylic Lens

Lamping (by others)

Compact Fluorescent:

General Electric	Osram/Sylvania	Philips
(1) 26W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F26TBX*/A/4P	CF26DT/E/IN/*	PL-T26W/*/4P
(1) 32W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F32TBX*/A/4P	CF32DT/E/IN/*	PL-T32W/*/4P
(1) 42W Triple Tube 4-Pin (Amalgam) Compact Fluorescent Lamp F42TBX*/A/4P	CF42DT/E/IN/*	PL-T42W/*/4P

Metal Halide:

General Electric	Osram/Sylvania	Philips
(1) 70W Ceramic Metal Halide ED17 Lamp MXR70/C/U/MED/0	MCP70/C/U/MED/*	MHC70/C/U/MP*
(1) 100W Ceramic Metal Halide ED17 Lamp MXR100/C/U/MED/0	MCP100/C/U/MED/*	MHC100/C/U/MP*

* Manufacturers' color temperature designation.

Electrical

Lampholders:

Compact Fluorescent: 4-pin, 26/32 watt base: GX24q-3; 42 watt base: GX24q-4;
 Incandescent: Medium Base, porcelain, Nickel Plated Screw Shell.

Metal Halide: Medium Base, Porcelain 4KV pulse rated.

Ballast: Fluorescent: Electronic	26 Watt	32 Watt	42 Watt
Voltage	120 277	120 277	120 277
Total Input Watts	26 26	36 36	47 47
Max. Line Current (Amps)	.22 .09	.30 .09	.39 .17

Power Factor >.98, Ballast Factor .98, THD <10%
 Minimum Starting Temperature 0°F

Metal Halide: Electronic	70 Watt	100 Watt
Voltage	120 277	120 277
Total Input Watts	78 78	110 110
Max. Line Current (Amps)	.67 .29	.94 .42

High power factor minimum ballast temperature +5°F.

Labels

cULus Listed. Suitable for Damp Locations.
 Industrex® is a registered trademark of AFG Industries, Inc.

Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Notes:	

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Application Data

Multiple Units (32W Triple Tube CFL)			
Spacing on Center	Height to Lighted Plane	Initial Foot-candles	Watts Per Sq. Ft.
6'	6'	56	1.00
	12'	48	
8'	6'	32	0.56
	12'	27	
10'	6'	20	0.36
	12'	17	

Based on 60" x 60" room with 80% ceiling cavity, 50% wall and 20% floor reflectances. Height is from bottom of fixture to lighted plane.

Illuminance (FC) Multipliers		
For Incandescent:	For Compact Fluorescent:	For Metal Halide:
100 Watt = 0.7	26 Watt = 0.7	70 Watt = 2.2
150 Watt = 1.2	42 Watt = 1.3	100 Watt = 3.5

Spacing Ratio = 3.3

32W Triple Tube CFL

Spacing Ratio = 3.5

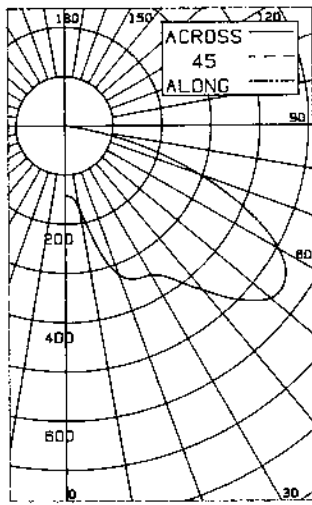
70W ED17 MH

CERTIFIED TEST REPORT NO. 0555FR
COMPUTED BY LSI PROGRAM **TEST-LITE**

CERTIFIED TEST REPORT NO. 0595FR
COMPUTED BY LSI PROGRAM **TEST-LITE**

LIGHTOLIER PENDANT DOWNLIGHT FIXTURE CAT. #40421
12 1/2" DIA. SEMI-SPECULAR FINISH REFLECTOR
1-32W PLT TRIPLE TUBE PHILIPS LAMP, LUMEN RATING = 2400 LMS.
ENERGY SAVINGS BALLAST, 120 VAC

LIGHTOLIER H.I.D. PENDANT DOWNLIGHT FIXTURE CAT. #40421
12 1/2" DIA. SEMI-SPECULAR REFLECTOR
1-70W ED-17 M.H. LAMP, SYL. COATED, LUMEN RATING = 4600 LMS.



CANDLEPOWER SUMMARY			
ANGLE	MEAN CP	LUMENS	
0	142		
5	146	14	
10	172		
15	256	71	
20	323		
25	344	158	
30	351		
35	381	244	
40	438		
45	502	385	
50	548		
55	549	482	
60	504		
65	413	403	
70	295		
75	171	183	
80	55		
85	5	18	
90	2		

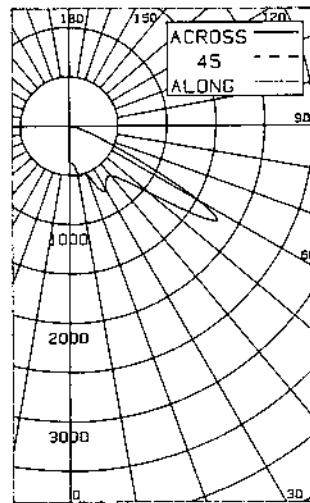
ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	243	10.14	12.42
0-40	487	20.30	24.86
0-60	1354	56.44	69.12
0-90	1959	81.65	100.00
40-90	1472	61.35	75.14
60-90	605	25.21	30.88
90-180	0	.00	.00
0-180	1959	81.65	100.00

PREPARED FOR:
LIGHTOLIER
FALL RIVER, MA

** EFFICIENCY = 81.6% **

DATE:
OCT 13, 1998

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.



CANDLEPOWER SUMMARY			
ANGLE	MEAN CP	LUMENS	
0	375		
5	385	39	
10	481		
15	511	144	
20	532		
25	694	308	
30	743		
35	663	429	
40	663		
45	784	635	
50	1061		
55	1002	1299	
60	1519		
65	608	746	
70	273		
75	113	142	
80	38		
85	17	23	
90	13		

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	492	16.23	17.04
0-40	920	19.17	24.43
0-60	2855	59.49	75.00
0-90	3766	78.47	100.00
40-90	2846	59.39	75.37
60-90	911	18.99	24.20
90-180	0	.00	.00
0-180	3766	78.47	100.00

PREPARED FOR:
LIGHTOLIER
FALL RIVER, MA

** EFFICIENCY = 78.5% **

DATE:
NOV 6, 1998

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.

Coefficients Of Utilization

32W Triple Tube CFL

Coefficients Of Utilization

70W ED17 MH

% EFFECTIVE CEILING CAVITY REFLECTANCE

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% EFFECTIVE CEILING CAVITY REFLECTANCE															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.84	.80	.77	.82	.79	.76	.79	.76	.73	.76	.73	.71	.73	.71	.69	.67
2	.72	.66	.61	.70	.65	.60	.67	.63	.59	.65	.61	.57	.62	.59	.56	.54
3	.61	.54	.48	.60	.53	.48	.58	.52	.47	.55	.50	.46	.53	.49	.45	.43
4	.53	.45	.39	.52	.45	.39	.50	.43	.38	.48	.42	.38	.46	.41	.37	.35
5	.46	.37	.31	.45	.37	.31	.43	.36	.31	.41	.35	.30	.39	.34	.30	.28
6	.39	.31	.25	.38	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
7	.34	.26	.20	.33	.25	.20	.32	.25	.20	.30	.24	.19	.29	.24	.19	.17
8	.30	.22	.17	.29	.22	.17	.28	.21	.16	.27	.21	.16	.26	.20	.16	.14
9	.27	.19	.14	.26	.19	.14	.25	.18	.14	.24	.18	.13	.23	.17	.13	.12
10	.24	.16	.12	.23	.16	.11	.22	.16	.11	.21	.15	.11	.21	.15	.11	.09

20% FLOOR CAVITY REFLECTANCE

ROOM CAVITY RATIO	% EFFECTIVE CEILING CAVITY REFLECTANCE															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.84	.80	.77	.82	.79	.76	.79	.76	.73	.76	.73	.71	.73	.71	.69	.67
2	.72	.66	.61	.70	.65	.60	.67	.63	.59	.65	.61	.57	.62	.59	.56	.54
3	.61	.54	.48	.60	.53	.48	.58	.52	.47	.55	.50	.46	.53	.49	.45	.43
4	.53	.45	.39	.52	.45	.39	.50	.43	.38	.48	.42	.38	.46	.41	.37	.35
5	.46	.37	.31	.45	.37	.31	.43	.36	.31	.41	.35	.30	.39	.34	.30	.28
6	.39	.31	.25	.38	.31	.25	.37	.30	.25	.35	.29	.24	.34	.28	.24	.22
7	.34	.26	.20	.33	.25	.20	.32	.25	.20	.30	.24	.19	.29	.24	.19	.17
8	.30	.22	.17	.29	.22	.17	.28	.21	.16	.27	.21	.16	.26	.20	.16	.14
9	.27	.19	.14	.26	.19	.14	.25	.18	.14	.24	.18	.13	.23	.17	.13	.12
10	.24	.16	.12	.23	.16	.11	.22	.16	.11	.21	.15	.11	.21	.15	.11	.09

20% FLOOR CAVITY REFLECTANCE

Job Information Type:

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Application Data

Multiple Units (32W Triple Tube, CFL)			
Spacing on Center	Height to Lighted Plane	Initial Foot-candles	Watts Per Sq. Ft.
6'	6'	62	1.00
	12'	53	
8'	6'	35	0.56
	12'	30	
10'	6'	22	0.36
	12'	19	

Based on 60" x 60" room with 80% ceiling cavity, 50% wall and 20% floor reflectances. Height is from bottom of fixture to lighted plane.

Illuminance (FC) Multipliers		
For Incandescent:	For Compact Fluorescent:	For Metal Halide:
100 Watt = 0.7	26 Watt = 0.7 42 Watt = 1.3	70 Watt = 2.2

Spacing Ratio = 3.3

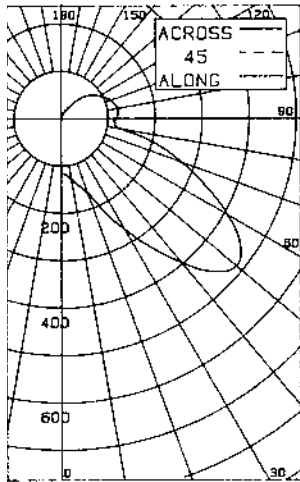
32W Triple Tube CFL

Spacing Ratio = 3.7

70W ED17 MH

CERTIFIED TEST REPORT NO. C356FR
COMPUTED BY LSI PROGRAM **TEST-LITE**

LIGHTOLIER PENDANT DOWNLIGHT FIXTURE CAT. #40422
12 1/2" DIA. CLEAR ACRYLIC REFLECTOR
1-32W FLUO TRIPLE TUBE PHILIPS LAMP. LUMEN RATING - 2400 LMS.
ENERGY SAVINGS BALLAST, 120 VAC



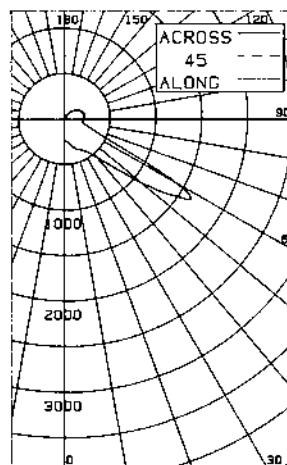
CANDLEPOWER SUMMARY					
ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	115	90	90	117	
5	120	11	95	121	133
10	132	42	100	121	
15	147	105	110	112	125
20	168	110	112		
25	216	100	115	104	103
30	270	120	95	17	
35	332	208	125	85	76
40	398	130	74		
45	458	35.5	135	61	47
50	485	140	44		
55	463	41.5	145	28	18
60	407	150	17		
65	338	336	135	11	5
70	273	160	9		
75	210	222	185	8	2
80	130	170	8		
85	115	125	175	7	1
90	117	180			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	153	6.39	6.59
30-40	361	15.07	15.56
40-60	1131	47.16	48.70
60-90	1814	75.60	78.05
90-90	1452	60.53	62.49
60-90	682	28.43	29.36
90-180	510	21.25	21.95
0-180	2324	96.85	100.00

** EFFICIENCY = 96.9% **

PREPARED FOR:
LIGHTOLIER
FALL RIVER, MA
DATE:
OCT 13, 1998

TESTED ACCORDING TO IES PROCEDURES. TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST LUMINOUS OPENING OF LUMINAIRE.



CANDLEPOWER SUMMARY					
ANGLE	MEAN CP	LMS.	ANGLE	MEAN CP	LMS.
0	117	90	90	117	
5	121	11	95	121	133
10	132	42	100	121	
15	147	105	110	112	125
20	168	110	112		
25	216	100	115	104	103
30	270	120	95	17	
35	332	208	125	85	76
40	398	130	74		
45	458	35.5	135	61	47
50	485	140	44		
55	463	41.5	145	28	18
60	407	150	17		
65	338	336	135	11	5
70	273	160	9		
75	210	222	185	8	2
80	130	170	8		
85	115	125	175	7	1
90	117	180			

ZONAL LUMENS AND PERCENTAGES			
ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	153	6.39	6.59
30-40	361	15.07	15.56
40-60	1131	47.16	48.70
60-90	1814	75.60	78.05
90-90	1452	60.53	62.49
60-90	682	28.43	29.36
90-180	510	21.25	21.95
0-180	2324	96.85	100.00

** EFFICIENCY = 96.9% **

Coefficients Of Utilization

32W Triple Tube CFL

Coefficients Of Utilization

70W ED17 MH

% EFFECTIVE CEILING CAVITY REFLECTANCE

% EFFECTIVE CEILING CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTION															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.93	.88	.83	.88	.84	.80	.80	.77	.73	.73	.70	.67	.66	.64	.62	.58
2	.79	.71	.65	.75	.68	.62	.68	.62	.57	.62	.57	.53	.56	.52	.49	.45
3	.67	.58	.51	.64	.56	.49	.58	.51	.46	.52	.47	.42	.47	.43	.39	.36
4	.58	.48	.41	.55	.47	.40	.50	.43	.37	.45	.39	.34	.41	.36	.32	.29
5	.50	.40	.33	.48	.39	.32	.43	.35	.30	.39	.32	.28	.35	.30	.25	.23
6	.43	.34	.27	.41	.32	.26	.37	.30	.24	.33	.27	.22	.30	.24	.20	.18
7	.37	.28	.22	.36	.27	.21	.32	.24	.19	.29	.22	.17	.26	.20	.16	.13
8	.33	.24	.18	.31	.23	.17	.28	.21	.16	.26	.19	.14	.23	.17	.13	.11
9	.29	.21	.15	.28	.20	.14	.25	.18	.13	.23	.16	.12	.20	.15	.10	.08
10	.26	.18	.12	.25	.17	.12	.22	.15	.11	.20	.14	.09	.18	.12	.08	.06

20% FLOOR CAVITY REFLECTANCE

ROOM CAVITY RATIO	% WALL REFLECTION															
	80			70			50			30			10			0
	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
1	.93	.88	.83	.88	.84	.80	.80	.77	.73	.73	.70	.67	.66	.64	.62	.58
2	.79	.71	.65	.75	.68	.62	.68	.62	.57	.62	.57	.53	.56	.52	.49	.45
3	.67	.58	.51	.64	.56	.49	.58	.51	.46	.52	.47	.42	.47	.43	.39	.36
4	.58	.48	.41	.55	.47	.40	.50	.43	.37	.45	.39	.34	.41	.36	.32	.29
5	.50	.40	.33	.48	.39	.32	.43	.35	.30	.39	.32	.28	.35	.30	.25	.23
6	.43	.34	.27	.41	.32	.26	.37	.30	.24	.33	.27	.22	.30	.24	.20	.18
7	.37	.28	.22	.36	.27	.21	.32	.24	.19	.29	.22	.17	.26	.20	.16	.13
8	.33	.24	.18	.31	.23	.17	.28	.21	.16	.26	.19	.14	.23	.17	.13	.11
9	.29	.21	.15	.28	.20	.14	.25	.18	.13	.23	.16	.12	.20	.15	.10	.08
10	.26	.18	.12	.25	.17	.12	.22	.15	.11	.20	.14	.09	.18	.12	.08	.06

20% FLOOR CAVITY REFLECTANCE

Job Information Type:

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